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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

1

1

Complete if Known

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| Application Number | 10/701,844 |
| Filing Date | November 4, 2003 |
| First Named Inventor | W. James JACKSON |
| Art Unit | 1645 |
| Examiner Name | Baskar, Padmavathi |
| Attorney Docket Number | 2479.0040002/EJH/C-K |

FOREIGN PATENT DOCUMENTS

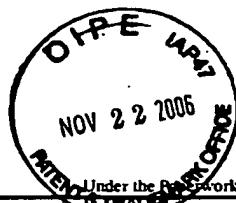
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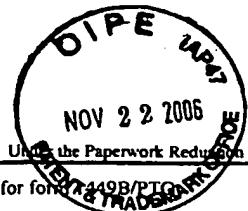
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| Substitute for form 1449B/PTO | | | | <i>Complete if Known</i> | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i> | | | | Application Number | 10/701,844 |
| Sheet | 1 | of | 4 | Filing Date | November 4, 2003 |
| | | | | First Named Inventor | W. James JACKSON |
| | | | | Art Unit | 1645 |
| | | | | Examiner Name | Baskar, Padmavathi |
| | | | | Attorney Docket Number | 2479.0040002/EJK/C-K |

| NON PATENT LITERATURE DOCUMENTS | | | | | |
|--|-----------------------|--|--|--|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | | | |
| | NPL1 | Amersdorfer, P., et al., "Molecular Characterization of Murine Humoral Immune Response to Botulinum Neurotoxin Type A Binding Domain as Assessed by Using Phage Antibody Libraries," <i>Infect. Immun.</i> 65:3743-3752, American Society For Microbiology (1997) | | | T ² |
| | NPL2 | Barenkamp, S.J. and St. Geme III, J.W., "Identification of Surface-Exposed B-Cell Epitopes on High-Molecular-Weight Adhesion Proteins of Nontypeable <i>Haemophilus influenzae</i> ," <i>Infect. Immun.</i> 64:3032-3037, American Society For Microbiology (1996) | | | |
| | NPL3 | Batteiger, B.E., et al., "Species-, Serogroup-, and Serovar-Specific Epitopes Are Juxtaposed in Variable Sequence Region 4 of the Major Outer Membrane Proteins of Some <i>Chlamydia trachomatis</i> Serovars," <i>Infect. Immun.</i> 64:2839-2841, American Society For Microbiology (1996) | | | |
| | NPL4 | Baughn, R.E., et al., "Epitope Mapping of B-Cell Determinants on the 15-Kilodalton Lipoprotein of <i>Treponema pallidum</i> (Tpp15) with Synthetic Peptides," <i>Infect. Immun.</i> 64:2457-2466, American Society For Microbiology (1996) | | | |
| | NPL5 | Brown, D.R., et al., "Identification and Characterization of a Neutralizing Monoclonal Antibody Against Botulinum Neurotoxin, Serotype F, Following Vaccination With Active Toxin," <i>Hybridoma</i> 16:447-456, Mary Ann Leibert, Inc. (1997) | | | |
| | NPL6 | Burnie, J.P., et al., "Defining Antibody Targets in <i>Streptococcus oralis</i> Infection," <i>Infect. Immun.</i> 64:1600-1608, American Society For Microbiology (1996) | | | |
| | NPL7 | Christiansen, G., et al., "Molecular biology of the Chlamydia pneumoniae surface," <i>Scand. J. Infect. Dis. Suppl.</i> 104:5-10, Blackwell Science, Ltd. (1997) | | | |
| | NPL8 | Cunningham, M.W., et al., "Molecular Analysis of Human Cardiac Myosin-Cross-Reactive B- and T-Cell Epitopes of the Group A Streptococcal M5 Protein," <i>Infect. Immun.</i> 65:3913-3923, American Society For Microbiology (1997) | | | |
| | NPL9 | Davies, D.R. and Cohen, G.H., "Interactions of protein antigens with antibodies," <i>Proc. Natl. Acad. Sci. USA</i> 93:7-12, National Academy of Sciences (1996) | | | |
| | NPL10 | De Sa, C., "La protéine majeure de la membrane externe de <i>Chlamydia</i> : structure et fonctions," <i>Vet. Res.</i> 27: 317-331, ZDP Sciences (1996) | | | |

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| Examiner Signature | <i>Reanne Barker</i> | Date Considered | <i>11/07</i> |
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| Sheet | 2 | of | 4 | Application Number | 10/701,844 |
| | | | | Filing Date | November 4, 2003 |
| | | | | First Named Inventor | W. James JACKSON |
| | | | | Art Unit | 1645 |
| | | | | Examiner Name | Baskar, Padmavathi |
| | | | | Attorney Docket Number | 2479.0040002/EJK/C-K |

NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published | T ² |
|--------------------|-----------------------|---|----------------|
| ✓ | NPL11 | Delvig, A.A., et al., "Immune responses to linear epitopes on the PorB protein of <i>Neisseria meningitidis</i> in patients with systemic meningococcal disease," <i>Microbiol.</i> 142:2491-2498, Society for General Microbiology (1996) | |
| | NPL12 | Deslauriers, M., et al., "Identification of Murine Protective Epitopes on the <i>Porphyromonas gingivalis</i> Fimbrillin Molecule," <i>Infect. Immun.</i> 64:434-440, American Society for Microbiology (1996) | |
| | NPL13 | Duij, B., et al., "Fine Mapping of Outer Membrane Protein P2 Antigenic Sites Which Vary During Persistent Infection by <i>Haemophilus influenzae</i> ," <i>Infect. Immun.</i> 64:4673-4679, American Society For Microbiology (1996) | |
| | NPL14 | Fan, J. and Stephens, R.S., "Antigen Conformation Dependence of <i>Chlamydia trachomatis</i> Infectivity Neutralization," <i>J. Infect. Dis.</i> 176:713-721, University of Chicago Press (1997) | |
| | NPL15 | Ghadjari, A., et al., "Epitope mapping <i>Candida albicans</i> proteinase (SAP 2)," <i>FEMS Immunol. Med. Microbiol.</i> 19:115-123, Elsevier Science (1997) | |
| | NPL16 | Janeway, C., et al., <i>Immunogenicity</i> , John Wiley & Sons, Inc., New York, NY, pp. 65-71 (1989) | |
| | NPL17 | Ji, Y., et al., "Intranasal immunization with CSa peptidase prevents nasopharyngeal colonization of mice by the group A Streptococcus," <i>Infect. Immun.</i> 65: 2080-2087, American Society for Microbiology (1997) | |
| | NPL18 | Lainson, F.A., et al., "Characterization of epitopes involved in the neutralization of <i>Pasteurella haemolytica</i> serotype A1 leukotoxin," <i>Microbiol.</i> 142:2499-2507, Society for General Microbiology (1996) | |
| | NPL19 | Li, C.H., et al., "β-Endorphin Omission Analogs: Dissociation of Immunoreactivity from Other Biological Activities," <i>Proc. Natl. Acad. Sci. USA</i> 77:3211-3214, National Academy of Sciences (1980) | |
| ✓ | NPL20 | Méchin, M., et al., "Identification of Surface-Exposed Linear B-Cell Epitopes of the Nonfimbrial Adhesin CS31A of <i>Escherichia coli</i> by Using Overlapping Peptides and Antipeptide Antibodies," <i>Infect. Immun.</i> 64:3555-3564, American Society for Microbiology (1996) | |

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| Examiner Signature | <i>John Berlin</i> | Date Considered | 8/1/07 |
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INFORMATION DISCLOSURE
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Sheet

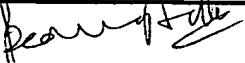
3 of 4

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| Application Number | 10/701,844 |
| Filing Date | November 4, 2003 |
| First Named Inventor | W. James JACKSON |
| Art Unit | 1645 |
| Examiner Name | Baskar, Padmavathi |
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NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published | T ² |
|--------------------|-----------------------|--|----------------|
| | NPL21 | Morris, G.E., <i>Methods in Molecular Biology</i> , Vol. 66:Epitope Mapping, Morris, G.E., ed., Humana Press, Totowa, NJ (1996) | |
| | NPL22 | Oettinger, T., et al., "Characterization of the Delayed Type Hypersensitivity-Inducing Epitope of MPT64 from <i>Mycobacterium tuberculosis</i> ," <i>Scand. J. Immunol.</i> 45:499-503, Blackwell Science, Ltd. (1997) | |
| | NPL23 | Pal, S., et al., "Monoclonal immunoglobulin A antibody to the major outer membrane protein of <i>Chlamydia trachomatis</i> mouse pneumonitis biovar protects mice against a genital chlamydial challenge," <i>Vaccine</i> 15:575-582, Elsevier Science (1997) | |
| | NPL24 | Pal, S., et al., "Immunization with an Acellular Vaccine Consisting of the Outer Membrane Complex of <i>Chlamydia trachomatis</i> Induces Protection against a Genital Challenge," <i>Infect. Immun.</i> 65:3361-3369, American Society for Microbiology (1997) | |
| | NPL25 | Read, T.D., et al., "Genome sequence of <i>Chlamydophila caviae</i> (<i>Chlamydia psittaci</i> GPIC): examining the role of niche-specific genes in the evolution of the Chlamydiaceae," <i>Nucleic Acids Res.</i> 31:2134-2147, Oxford University Press (2003) | |
| | NPL26 | Roitte, I., et al., <i>Immunology</i> , Roitt, I., Brostoff, J., and Male, D., eds., St. Louis, MO, CV. Mosby, pp. 7.1-7.10 (1989) | |
| | NPL27 | Saint-Remy, J.R., "Epitope mapping: a new method for biological evaluation and immunotoxicology," <i>Toxicology</i> 119:77-81, Elsevier Science (1997) | |
| | NPL28 | Sandbulte, J., et al., "Evaluation of <i>Chlamydia psittaci</i> subfraction and subunit preparations for their protective capacities," <i>Vet. Microbiol.</i> 48:269-282, Elsevier Scientific Pub. Co (1996) | |
| | NPL29 | Takahashi, I., et al., "Epitope Maps of the <i>Escherichia coli</i> Heat-Labile Toxin B Subunit for Development of a Synthetic Oral Vaccine," <i>Infect. Immun.</i> 64:1290-1298, American Society for Microbiology (1996) | |
| | NPL30 | Wood, A.C., et al., "Identification of antigenic sites on staphylococcal enterotoxin B and toxoid," <i>FEMS Immunol. Med. Microbiol.</i> 17:1-10, Elsevier Science (1997) | |
| | NPL31 | Yanagisawa, S., et al., "Mapping of V _β 11 ⁺ helper T cell epitopes on mycobacterial antigen in mouse primed with <i>Mycobacterium tuberculosis</i> ," <i>Int. Immunol.</i> 9:227-237, Oxford University Press (1997) | |

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| Examiner Signature |  | Date Considered | 11/17 |
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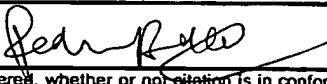
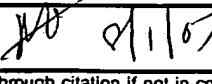
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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i> | | | | <i>Application Number</i> | 10/701,844 |
| Sheet | 4 | of | 4 | <i>Filing Date</i> | November 4, 2003 |
| | | | | <i>First Named Inventor</i> | W. James JACKSON |
| | | | | <i>Art Unit</i> | 1645 |
| | | | | <i>Examiner Name</i> | Baskar, Padmavathi |
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|--|-----------------------|---|----------------|
|  | NPL32 | Zhao, Q., <i>et al.</i> , "Recall of Original Serologic Response after Challenge with Homologues and Heterologous <i>Chlamydia trachomatis</i> Serovars," <i>J. Infect. Dis.</i> 173:609 -618, The University of Chicago Stet (1996) | |
|  | NPL33 | Zhong, G., <i>et al.</i> , "Antibody Recognition of a Neutralization Epitope on the Major Outer Membrane Protein of <i>Chlamydia trachomatis</i> ," <i>Infect. Immun.</i> 62:1576-1583, American Society for Microbiology (1994) | |
|  | NPL34 | Zhu, Y., <i>et al.</i> , "Identification of a <i>Coccidioides immitis</i> Antigen 2 Domain That Expresses B-Cell-Reactive Epitopes," <i>Infect. Immun.</i> 65:3376-3380, American Society for Microbiology (1997) | |
|  | NPL35 | Copy of co-pending U.S. Application No. 08/942,596, inventors Jackson, W.J., <i>et al.</i> , filed October 2, 1997 (NOT PUBLISHED) | |
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| SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i> | | | | Application Number | 10/701,844 |
| Sheet | 1 | of | 3 | Filing Date | November 4, 2003 |
| | | | | First Named Inventor | JACKSON, W. James |
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| /PB/ | NPL36 | BATTEIGER, B.E., <i>et al.</i> , "Partial protection against genital reinfection by immunization of guinea-pigs with isolated outer-membrane proteins of the chlamydial agent of guinea-pig inclusion conjunctivitis," <i>J. Gen. Microbiol.</i> 139:2965-2972, SGM (1993) | | | |
| /PB/ | NPL37 | BORK, P., "Go hunting in sequence databases but watch out for the traps," <i>Trends Genet.</i> 12:425-427, Elsevier Science Ltd. (October 1996) | | | |
| /PB/ | NPL38 | BORK, P., "Powers and Pitfalls in Sequence Analysis: The 70% Hurdle," <i>Genome Res.</i> 10:398-400, Cold Spring Harbor Laboratory Press (April 2000) | | | |
| /PB/ | NPL39 | BRENNER, S.E., "Errors in genome annotation," <i>Trends Genet.</i> 15:132-133, Elsevier Science Ltd. (April 1999) | | | |
| /PB/ | NPL40 | BUSH, R.M., and EVERETT, K.D.E., "Molecular evolution of the <i>Chlamydiaceae</i> ," <i>Int. J. Syst. Evol. Microbiol.</i> 51:203-220, IUMS (January 2001) | | | |
| /PB/ | NPL41 | CLYNE, J.M., <i>et al.</i> , "A Rapid Chemiluminescent DNA Hybridization Assay for the Detection of <i>Chlamydia Trachomatis</i> ," <i>J. Biolumin. Chemilumin.</i> 4:357-366, John Wiley & Sons, Ltd. (1989) | | | |
| /PB/ | NPL42 | DOERKS, T., <i>et al.</i> , "Protein annotation: detective work for function prediction," <i>Trends Genet.</i> 14:248-250, Elsevier Science Ltd. (June 1998) | | | |
| /PB/ | NPL43 | KRIEG, A.M., "Therapeutic potential of Toll-like receptor 9 activation," <i>Nature Rev. Drug Discov.</i> 5:471-484, Nature Publishing Group (June 2006) | | | |
| /PB/ | NPL44 | MYGIND, P.H., <i>et al.</i> , "Membrane proteins PmpG and PmpH are major constituents of <i>Chlamydia trachomatis</i> L2 outer membrane complex," <i>FEMS Microbiol. Lett.</i> 186:163-169, Elsevier Science B.V. (May 2000) | | | |
| /PB/ | NPL45 | NCBI Entrez, GenBank Report, Accession No. ABB22785, Halse, T.A., <i>et al.</i> (First entered October 2005 and last revised August 2006) | | | |

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|--------------------|---------------------|-----------------|------------|
| Examiner Signature | /Padmavathi Baskar/ | Date Considered | 08/02/2007 |
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| SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i> | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Application Number</td> <td colspan="3">10/701,844</td> </tr> <tr> <td>Filing Date</td> <td colspan="3">November 4, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td colspan="3">JACKSON, W. James</td> </tr> <tr> <td>Art Unit</td> <td colspan="3">1645</td> </tr> <tr> <td>Examiner Name</td> <td colspan="3">BASKAR, Padmavathi</td> </tr> <tr> <td>Sheet</td> <td>2</td> <td>of</td> <td>3</td> <td>Attorney Docket Number</td> <td>2479.0040002/EJH/C-K</td> </tr> </table> | | | | Application Number | 10/701,844 | | | Filing Date | November 4, 2003 | | | First Named Inventor | JACKSON, W. James | | | Art Unit | 1645 | | | Examiner Name | BASKAR, Padmavathi | | | Sheet | 2 | of | 3 | Attorney Docket Number | 2479.0040002/EJH/C-K |
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| Examiner Name | BASKAR, Padmavathi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sheet | 2 | of | 3 | Attorney Docket Number | 2479.0040002/EJH/C-K | | | | | | | | | | | | | | | | | | | | | | | | | | |

| NON PATENT LITERATURE DOCUMENTS | | | | |
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| /PB/ | NPL46 | NGO, J.T., <i>et al.</i> , "Computational Complexity, Protein Structure Prediction, and the Levinthal Paradox—Future Work," in <i>The Protein Folding Problem and Tertiary Structure Prediction</i> , Merz, Jr., K.M., and Le Grand, S.M., eds., Birkhäuser, Boston, MA, pp. 492-495 (1994) | | |
| /PB/ | NPL47 | PEIPERT, J.F., "Genital Chlamydial Infections," <i>N. Engl. J. Med.</i> 349:2424-2430, Massachusetts Medical Society (December 2003) | | |
| /PB/ | NPL48 | SHAW, A.C., <i>et al.</i> , "Comparative proteome analysis of <i>Chlamydia trachomatis</i> serovar A, D, and L2," <i>Proteomics</i> 2:164-186, Wiley-VCH Verlag GmbH (February 2002) | | |
| /PB/ | NPL49 | SKOLNICK, J., and FETROW, J.S., "From genes to protein structure and function: novel applications of computational approaches in the genomic era," <i>Trends Biotechnol.</i> 18:34-39, Elsevier Science Ltd. (January 2000) | | |
| /PB/ | NPL50 | SMITH, J.A., "Analysis of Proteins," in <i>Short Protocols in Molecular Biology</i> 3 rd ed., Ausubel, F.M., <i>et al.</i> , eds. John Wiley & Sons, Inc., United States (1997) | | |
| /PB/ | NPL51 | SMITH, T.F., and ZHANG, X., "The challenges of genome sequence annotation or "The devil is in the details," <i>Nature Biotechnol.</i> 15:1222-1223, Nature America, Inc. (November 1997) | | |
| /PB/ | NPL52 | STEPHENS, R.S., <i>et al.</i> , "Genome Sequence of an Obligate Intracellular Pathogen of Humans: <i>Chlamydia trachomatis</i> ," <i>Science</i> 282:754-759, American Association for the Advancement of Science (October 1998) | | |
| /PB/ | NPL53 | SU, H., <i>et al.</i> , "Protective efficacy of a parenterally administered MOMP-derived synthetic oligopeptide vaccine in a murine model of <i>Chlamydia trachomatis</i> genital tract infection: serum neutralizing IgG antibodies do not protect against chlamydial genital tract infection," <i>Vaccine</i> 13:1023-1032, Elsevier Science Ltd. (1995) | | |
| /PB/ | NPL54 | TANZER, R.J., and HATCH, T.P., "Characterization of Outer Membrane Proteins in <i>Chlamydia trachomatis</i> LGV Serovar L2," <i>J. Bacteriol.</i> 183:2686-2690, American Society of Microbiology (April 2001) | | |
| /PB/ | NPL55 | TUFFREY, M., <i>et al.</i> , "Heterotypic protection of mice against chlamydial salpingitis and colonization of the lower genital tract with a human serovar F isolate of <i>Chlamydia trachomatis</i> by prior immunization with recombinant serovar L1 major outer-membrane protein," <i>J. Gen. Microbiol.</i> 138:1707-1715, SGM (1992) | | |

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| | | | | Filing Date | November 4, 2003 |
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| | | | | Art Unit | 1645 |
| | | | | Examiner Name | BASKAR, Padmavathi |
| Sheet | 3 | of | 3 | Attorney Docket Number | 2479.0040002/EJH/C-K |

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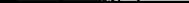
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